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FILE LAST UPDATED: 11 Apr 2008 (20080411/ED)

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=> s "single chain diabody" and library and linker
 1409735 "SINGLE"
 3379 "SINGLES"
 1412605 "SINGLE"
 ("SINGLE" OR "SINGLES")
 760502 "CHAIN"
 331139 "CHAINS"
 955504 "CHAIN"
 ("CHAIN" OR "CHAINS")
 240 "DIABODY"
 188 "DIABODIES"
 325 "DIABODY"
 ("DIABODY" OR "DIABODIES")
 34 "SINGLE CHAIN DIABODY"
 ("SINGLE"(W)"CHAIN"(W)"DIABODY")
 87847 LIBRARY
 31499 LIBRARIES
 103475 LIBRARY
 (LIBRARY OR LIBRARIES)
 24446 LINKER
 5963 LINKERS
 27941 LINKER
 (LINKER OR LINKERS)

L1 1 "SINGLE CHAIN DIABODY" AND LIBRARY AND LINKER

=> d L1 bib abs 1

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:610406 CAPLUS

DN 141:330525

TI Recombinant bispecific antibodies for the targeting of adenoviruses to
 CEA-expressing tumour cells: a comparative analysis of bacterially
 expressed single-chain diabody and tandem
 scFv

AU Korn, Tina; Nettelbeck, Dirk M.; Voelkel, Tina; Mueller, Rolf; Kontermann,
 Roland E.

CS Institut fuer Molekularbiologie und Tumorforschung, Philipps-Universitaet,
 Marburg, 35033, Germany

SO Journal of Gene Medicine (2004), 6(6), 642-651

CODEN: JGMEFG; ISSN: 1099-498X

PB John Wiley & Sons Ltd.

DT Journal

LA English

AB We have generated two distinct recombinant bispecific antibody mols. for
 the retargeting of adenoviral vectors to CEA-expressing tumor cells.

These antibody mols. were produced by combining the antigen-binding sites

of a neutralizing anti-fiber knob scFv (S11) and an anti-CEA antibody either in a single-chain diabody format (scDb CEA-S11) or a tandem scFv format (taFv CEA-S11). In order to facilitate expression of taFv CEA-S11 in bacteria we selected from a phage display library taFv mols. with an optimized linker that connects the two scFv fragments. ScDb CEA-S11 and taFv CEA-S11 were expressed and purified in sol. form from the bacterial periplasm with yields of approx. 100 .mu.g per L of bacterial culture. In vitro, both bispecific mols. mediated selective and enhanced transduction of CEA-expressing tumor cells by recombinant adenoviruses. These assays did not reveal any differences in efficiency of adenoviral transduction by the two antibody formats. However, compared with taFv CEA-S11, scDb CEA-S11 exhibited a 2- to 3-fold increased stability in human plasma at 37.degree.C. In summary, we could demonstrate that both formats are suitable for adenovirus targeting to tumor cells with similar biol. activity in vitro.

RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s (single chain) and diabody and linker and library

1409735 SINGLE

3379 SINGLES

1412605 SINGLE

(SINGLE OR SINGLES)

760502 CHAIN

331139 CHAINS

955504 CHAIN

(CHAIN OR CHAINS)

14157 SINGLE CHAIN

(SINGLE(W)CHAIN)

240 DIABODY

188 DIABODIES

325 DIABODY

(DIABODY OR DIABODIES)

24446 LINKER

5963 LINKERS

27941 LINKER

(LINKER OR LINKERS)

87847 LIBRARY

31499 LIBRARIES

103475 LIBRARY

(LIBRARY OR LIBRARIES)

L2 5 (SINGLE CHAIN) AND DIABODY AND LINKER AND LIBRARY

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L3 5 DUPLICATE REMOVE L2 (0 DUPLICATES REMOVED)

=> d L3 bib abs 1-5

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:1171482 CAPLUS

DN 143:438502

TI Diabodies specific to Streptococcus surface antigen I/II for
diagnosis and treatment of oral disease such as periodontitis and dental
caries

IN Finnern, Ricarda; Fischer, Rainer

PA Fraunhofer-Gesellschaft Zur Foerderung der Angewandten Forschung e.v.,
Germany

SO PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005103085	A1	20051103	WO 2005-EP4284	20050421
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1749030	A1	20070207	EP 2005-742967	20050421
R: CH, DE, FR, GB, LI				
JP 2008507258	T	20080313	JP 2007-508847	20050421
KR 2007038454	A	20070410	KR 2006-724400	20061121
US 20070231321	A1	20071004	US 2007-578641	20070320
PRAI US 2004-564396P	P	20040422		
WO 2005-EP4284	W	20050421		
AB Common oral diseases such as periodontitis and dental caries can be prevented effectively by passive immunization. The present invention provides human single chain Fv (scFv) and diabody antibody fragments based on the binding characteristics of				

the murine monoclonal antibody Guy's 13. Like the parent antibody, these derivs. bind specifically to SAI/II, the surface adhesin of Streptococcus and the human diabody deriv. is capable of aggregating streptococcal cells, making it a useful candidate therapeutic agent for passive immunization against oral diseases.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:45536 CAPLUS

DN 142:196175

TI A diabody that dissociates to monomer forms at low concentration: effects on binding activity and tumor targeting

AU Huang, Bao-cheng; Foote, Linda J.; Lankford, Trish K.; Davern, Sandra M.; McKeown, Cathy K.; Kennel, Stephen J.

CS Life Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN, USA

SO Biochemical and Biophysical Research Communications (2005), 327(4), 999-1005

CODEN: BBRCA9; ISSN: 0006-291X

PB Elsevier

DT Journal

LA English

AB A human scFv, 15-9, was selected from a phage display library for binding to murine laminin-1. A diabody was made from the scFv by shortening the linker from 15 to 5 amino acids between the VH and VL sequence. Radioiodinated scFv and diabody were analyzed for size, binding to laminin, and biodistribution in tumor bearing mice. Diabody preps. at concns. greater than 10 nM were largely dimer forms (.apprx.60 kDa) as judged by gel filtration, but dild. diabody was eluted as a monomer (.apprx.30 kDa). At low concns. the radiolabeled diabody did not bind well to laminin. The 125I diabody had significantly lower accumulation in tumors than did the scFv when injected at lower concns. These data indicate that the diabody dimer dissocs. at concns. of about 10 nM resulting in monomers with no binding activity for laminin and poor tumor homing properties.

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:252106 CAPLUS

DN 140:269512

TI Multivalent and multispecific engineered antibodies

IN Holliger, Kaspar-philipp; Griffiths, Andrew David; Hoogenboom, Hendricus

Renerus J. M.; Malmqvist, Magnus; Marks, James David; McGuinness, Brian
Timothy; Pope, Anthony Richard; Prospero, Terence Derek; Winter, Gregory
Paul

PA Medical Research Council, UK

SO U.S. Pat. Appl. Publ., 98 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 4

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 20040058400	A1	20040325	US 2002-247839	20020920
US 7122646	B2	20061017		
WO 9413804	A1	19940623	WO 1993-GB2492	19931203
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5837242	A	19981117	US 1996-448418	19960514
US 6492123	B1	20021210	US 1998-146979	19980903
PRAI GB 1992-25453	A	19921204		
GB 1993-816	A	19930116		
EP 1993-303614	A	19930510		
GB 1993-19969	A	19930922		
WO 1993-GB2492	W	19931203		
US 1996-448418	A1	19960514		
US 1998-146979	A1	19980903		

AB The authors disclose antibody constructs comprising a first heavy chain variable region and a second light chain variable region, the domains being linked but incapable of assocg. with each other to form an antigen binding site. These constructs assoc. to form antigen binding multimers, such as dimers, which may be multivalent or have multispecificity. The domains may be linked by a short peptide linker or may be joined directly together. Bispecific dimers may have longer linkers. Methods of prepn. of the polypeptides and multimers and diverse repertoires thereof, and their display on the surface of bacteriophage for easy selection of binders of interest, are disclosed, along with many utilities.

L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:610406 CAPLUS

DN 141:330525

TI Recombinant bispecific antibodies for the targeting of adenoviruses to
CEA-expressing tumour cells: a comparative analysis of bacterially
expressed single-chain diabody and tandem

scFv

AU Korn, Tina; Nettelbeck, Dirk M.; Voelkel, Tina; Mueller, Rolf; Kontermann, Roland E.

CS Institut fuer Molekularbiologie und Tumorforschung, Philipps-Universitaet, Marburg, 35033, Germany

SO Journal of Gene Medicine (2004), 6(6), 642-651

CODEN: JGMEFG; ISSN: 1099-498X

PB John Wiley & Sons Ltd.

DT Journal

LA English

AB We have generated two distinct recombinant bispecific antibody mols. for the retargeting of adenoviral vectors to CEA-expressing tumor cells. These antibody mols. were produced by combining the antigen-binding sites of a neutralizing anti-fiber knob scFv (S11) and an anti-CEA antibody either in a single-chain diabody format (scDb CEA-S11) or a tandem scFv format (taFv CEA-S11). In order to facilitate expression of taFv CEA-S11 in bacteria we selected from a phage display library taFv mols. with an optimized linker that connects the two scFv fragments. ScDb CEA-S11 and taFv CEA-S11 were expressed and purified in sol. form from the bacterial periplasm with yields of approx. 100 .mu.g per L of bacterial culture. In vitro, both bispecific mols. mediated selective and enhanced transduction of CEA-expressing tumor cells by recombinant adenoviruses. These assays did not reveal any differences in efficiency of adenoviral transduction by the two antibody formats. However, compared with taFv CEA-S11, scDb CEA-S11 exhibited a 2- to 3-fold increased stability in human plasma at 37.degree.C. In summary, we could demonstrate that both formats are suitable for adenovirus targeting to tumor cells with similar biol. activity in vitro.

RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2002:185179 CAPLUS

DN 136:215405

TI A single-chain antibody to human endoglin for use in the prevention of tumor vascularization

IN Kontermann, Roland; Miller, Daniel; Mueller, Rolf

PA Vectron Therapeutics AG, Germany

SO PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI	WO 2002020614	A2	20020314	WO 2001-EP10197	20010904
	WO 2002020614	A3	20020801		
	W: CA, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	DE 10043481	A1	20020411	DE 2000-10043481	20000904
	CA 2421202	A1	20030304	CA 2001-2421202	20010904
	EP 1315760	A2	20030604	EP 2001-980336	20010904
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
	JP 2004508035	T	20040318	JP 2002-525233	20010904
	US 20040053329	A1	20040318	US 2003-363349	20030801
PRAI	DE 2000-10043481	A	20000904		
	WO 2001-EP10197	W	20010904		

AB A single-chain antibody that specifically binds to the extracellular domain of the human endoglin (CD105 antigen) is described for use in the prevention of angiogenesis of tumors. The antibody was identified by screening a phage display library. A fusion protein of the antibody with an antibody to the knob protein of adenovirus 5 is prepd. for use in the targeting of adenoviral gene therapy vectors to endothelial cells. Other uses for the antibody, including the use of fusion proteins with anti-CD3 antibodies to induce lysis of endothelial cells.